

110. A method of fabricating a device comprising steps of:
providing a substrate;

producing magnetic regions in or on the substrate,
wherein the magnetic regions produce a plurality of
magnetic fields when magnetized, and wherein the
localized magnetic fields are sufficient to trap a mag-
netic particle with a trapping energy at least five times
greater than the thermal energy of the particle at room
temperature.

111. A method of fabricating a device comprising:
providing a substrate;

producing magnetic regions in or on the substrate,
wherein the magnetic regions produce a plurality of
localized magnetic fields, and wherein the magnetic
regions project above the surface of the substrate.

112. The method of claim 111, wherein the magnetic
regions comprise a magnetic material, and wherein the
magnetic regions are fabricated using photolithography.

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